

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 01/08/02

Date Received: 12/28/01

Project: Metro Grab PO# M87103

Date Extracted: 12/28/01

Date Analyzed: 01/02/02

**RESULTS FROM THE ANALYSIS OF THE WATER SAMPLE
FOR TOTAL METALS BY
INDUCTIVELY COUPLED PLASMA (ICP)
(METHOD 6010)**

Results Reported as mg/L (ppm)

<u>Sample ID</u> Laboratory ID	<u>Chromium</u>	<u>Copper</u>	<u>Nickel</u>	<u>Zinc</u>
M87103 112134-01	0.45	0.38	0.41	<0.05
Method Blank	<0.05	<0.05	<0.05	<0.05

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QUALITY ASSURANCE RESULTS FROM TOTAL METALS BY INDUCTIVELY COUPLED PLASMA (ICP) (METHOD 6010)

Laboratory Code: 112096-01 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	Relative Percent Difference	Acceptance Criteria
Chromium	mg/L (ppm)	0.26	0.25	4	0-20
Copper	mg/L (ppm)	0.28	0.28	0	0-20
Nickel	mg/L (ppm)	0.24	0.23	4	0-20
Zinc	mg/L (ppm)	0.05	0.05	0	0-20

Laboratory Code: 112096-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	% Recovery MS	% Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Chromium	mg/L (ppm)	2	0.26	74	76	80-120	3
Copper	mg/L (ppm)	2	0.28	73	74	80-120	1
Nickel	mg/L (ppm)	4	0.24	77	77	80-120	0
Zinc	mg/L (ppm)	2	0.05	78	81	80-120	4

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	% Recovery LCS	% Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Chromium	mg/L (ppm)	2	84	85	80-120	1
Copper	mg/L (ppm)	2	85	86	80-120	1
Nickel	mg/L (ppm)	4	86	85	80-120	1
Zinc	mg/L (ppm)	2	87	87	80-120	0

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ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Charlene Morrow, M.S.
Yelena Aravkina, M.S.
Bradley T. Benson, B.S.
Kurt Johnson, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
TEL: (206) 285-8282
FAX: (206) 283-5044
e-mail: fbi@isomedia.com

January 8, 2002

DUPLICATE COPY

INVOICE #02ACU0108-1

Accounts Payable
Alaskan Copper Works
628 South Hanford
Seattle, WA 98134

RE: Project Metro Grab PO# M87103 - Results of testing requested by Gerry
Thompson for material submitted on December 28, 2001.

1 sample analyzed for Total Chromium, Copper, Nickel and Zinc by Method 6010B @ \$80 per sample	\$ 80.00
Amount Due	\$ 80.00

FEDERAL TAX ID # (b) (6)

112096

SAMPLE CHAIN OF CUSTODY

ME BI₃ 12/20/01

Send Report To General Thompson
 Company Alaskan Copper Works
 Address 628 S Harbor St
 City, State, ZIP Seattle WA 98134
 Phone # 206-382-8379 Fax # 206-382-8309

SAMPLERS (signature) [Signature]

PROJECT NAME/NO.

PO #

METRO SEC'd monitorM 67247

REMARKS

Page # _____ of _____

TURNAROUND TIME

☐ Standard (2 Weeks)☐ RUSH

Rush charges authorized by: _____

SAMPLE DISPOSAL

☐ Dispose after 30 days☐ Return samples☐ Will call with instructions

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of containers	ANALYSES REQUESTED										Notes
						TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by 8260	SVOCs by 8270	HFS	Ch, Cy, Ni, Zn				
<u>M 67247</u>	<u>01</u>	<u>12/20/01</u>	<u>10:50</u>	<u>H₂O</u>	<u>1</u>											

Friedman & Bruya, Inc.
 3012 16th Avenue West
 Seattle, WA 98119-2029
 Ph. (206) 285-8282
 Fax (206) 283-5044

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by: <u>[Signature]</u>	<u>General A. Thompson</u>	<u>ACIW</u>	<u>12/20/01</u>	<u>10:45am</u>
Received by: <u>[Signature]</u>	<u>Michael E. Clark</u>	<u>FIB</u>	<u>12/20/01</u>	<u>10:50am</u>
Relinquished by:				
Received by:				

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January 8, 2002

Gerry Thompson, Project Manager
Alaskan Copper Works
628 South Hanford
Seattle, WA 98134

Dear Mr. Thompson:

Included are the results from the testing of material submitted on December 28, 2001 from your Metro Grab PO# M87103 project. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl
Project Manager

Enclosures
ACU0108R.DOC